## B. Claims

The following is a complete listing of the claims, and replaces all earlier versions and listings.

- 1-13. (Cancelled)
- 14. (Currently Amended) A manufacturing method of a thermoelectric conversion material comprising the steps of:

providing a structure in which a plurality of columns of a column-forming material containing aluminum are distributed in a matrix containing silicon, germanium, or silicon germanium that is eutectic with aluminum by sputtering;

removing the column-forming material to form a porous body; and introducing a semiconductor material into pores of the porous body.

- 15. (Original) The manufacturing method according to claim 14, comprising a step of chemically treating the porous body after the removal step.
- 16. (Previously Presented) The manufacturing method according to claim 15, wherein chemical treatment is an oxidation treatment.
- 17. (Original) The manufacturing method of thermoelectric conversion material according to any one of claim 14 to 16, wherein the introduction step of the

semiconductor is electrodeposition.

- 18. (Withdrawn) A structure comprising a plurality of columns of a column-forming material and a matrix surrounding the columns, wherein the columns have a Seebeck coefficient at a room temperature larger than that of the material in bulk solid.
- 19. (Withdrawn) The structure according to claim 18 wherein the columns are placed on a substrate, and substantially perpendicular to a surface of the substrate.
- 20. (Withdrawn) A thermoelectricity conversion device comprising on a substrate, a structure which comprises columns of a column-forming material and a matrix surrounding the columns, wherein the columns have a Seebeck coefficient larger than that of the material in a bulk solid at room temperature, and the columns are electrically connected to electrodes; and the device generates current flow in response to thermal change of outside.